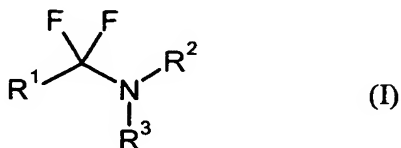


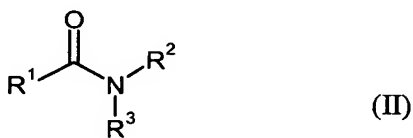
**WHAT IS CLAIMED IS:**

1. Process for preparing compounds of the formula (I)



where

- 5  $\text{R}^1$  represents hydrogen,  $\text{C}_1\text{-C}_{12}$ -alkyl,  $[(\text{C}_2\text{-C}_{12}\text{-alkylene})\text{-O}]_n(\text{C}_1\text{-C}_{12}\text{-alkyl})$  where  $n = 1$  to  $5$ ,  $\text{C}_3\text{-C}_{14}$ -aryl,  $\text{C}_4\text{-C}_{15}$ -arylalkyl or  $\text{NR}^4\text{R}^5$ , where  $\text{R}^4$  and  $\text{R}^5$  each independently of one another represent  $\text{C}_1\text{-C}_8$ -alkyl or  $\text{NR}^4\text{R}^5$  as a whole represents a 4 to 7-membered cyclic radical having a total of 3 to 16 carbon atoms and
- 10  $\text{R}^2$  and  $\text{R}^3$  each independently of one another represent  $\text{C}_1\text{-C}_{12}$ -alkyl,  $\text{C}_3\text{-C}_{14}$ -aryl or  $\text{C}_4\text{-C}_{15}$ -arylalkyl, or together are part of a cyclic radical having a total of 3 to 16 carbon atoms, or
- $\text{R}^1$  and  $\text{R}^2$  and/or  $\text{R}^3$  are a cyclic radical having a total of 3 to 16 carbon atoms,
- 15 comprising reacting compounds of the formula (II)



where

$\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  have the meanings given above

in the presence of oxalyl fluoride and/or difluorophosgene.

2. Process according to Claim 1, characterized in that the reaction takes place in the presence of organic solvent.
3. Process according to Claim 1, characterized in that  $R^1$  represents hydrogen,  $C_1$ - $C_{12}$ -alkyl or  $C_3$ - $C_6$ -aryl.
- 5 4. Process according to Claim 1, characterized in that the radicals  $R^2$  and  $R^3$  each independently of one another represent  $C_1$ - $C_8$ -alkyl, or  $NR^2R^3$ , which as a whole, represents N-morpholinyl, N-methyl-1,4-piperazin-N-yl, or  $R^1CF_2R^2$ , which as a whole, represents 2,2-difluoroimidazoliny, 2,2-difluoropyrrolidinyl, 2,2-difluoropiperidinyl or [2,2,2]-2,2,5,5-tetrafluoro-1,4-diazabicyclooctane or [2,2,2]-2,2,6,6-tetrafluoro-1,4-diazabicyclooctane, in which case the radicals are optionally monosubstituted or disubstituted by  $C_1$ - $C_4$ -alkyl.  
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5. Process according to Claim 1, characterized in that the compounds of the formula (I) prepared are: 1,1-difluoromethyl-N,N-dimethylamine, 1,1-difluoromethyl-N,N-diethylamine, 1,1-difluoromethyl-N,N-diisopropylamine, 1,1-difluoro-N,N-2-trimethyl-1-propanamine, 1,1-difluoro-N,N-2,2-tetramethyl-1-propanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro-2,2-dimethyl-1-propanamine, N-(1,1-difluoromethyl)morpholine, 1,1-difluoro-N,N-dimethylphenylmethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro-3-pyridylmethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro-2-pyridylmethanamine, diethyl- $\alpha,\alpha$ -difluoro-(4-chlorophenyl)methanamine, N,N-diisopropyl- $\alpha,\alpha$ -difluorophenylmethanamine, N,N-diethyl- $\alpha,\alpha$ -difluorophenylmethanamine, N,N-dimethyl- $\alpha,\alpha$ -difluorophenylmethanamine, 2,2-difluoro-1,3-dimethylimidazolidin, 2,2-difluoro-1,3,3-trimethylpyrrolidine, [2,2,2]-2,2,5,5-tetrafluoro-3,3,6,6-tetramethyl-1,4-diazabicyclooctane and [2,2,2]-2,2,6,6-tetrafluoro-3,3,5,5-tetramethyl-1,4-diazabicyclooctane.  
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6. Process according to Claim 1, characterized in that the molar ratio of oxalyl fluoride to compounds of the formula (II) is 0.8:1 to 20:1

7. Process according to Claim 1, characterized in that the reaction temperature is -50°C to 100°C.
8. Process according to Claim 1, characterized in that the reaction pressure is 0.8 to 20 bar.
- 5 9. Process according to Claim 1, further reacting the resulting compounds of formula (I) with
  - at least one aprotic, tertiary amine which does not contain fluorine atoms in the  $\alpha$  position to the nitrogen and/or at least one N-heteroaromatic compound and
  - 10 • hydrogen fluoride.
10. Process according to Claim 9, characterized in that the molar ratio of aprotic tertiary amine and/or N-heteroaromatic compounds to compounds of the formula (I) is 0.1:1 to 20:1 and the molar ratio of hydrogen fluoride to aprotic tertiary amine is 0.2:1 to 10:1.
- 15 11. A process for preparing fluorine compounds from corresponding hydroxyl compounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 1.
12. A process for preparing geminal difluorocompounds from the corresponding carbonyl compounds comprising providing compounds  
20 which have been prepared according to Claim 1.
13. The process according to Claim 11, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.

14. The process according to Claim 12, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.
- 5 15. A process for preparing fluorine compounds from corresponding hydroxyl compounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 9 .
16. A process for preparing geminal difluorocompounds from the corresponding carbonyl compounds comprising providing compounds which have been prepared according to Claim 9.
- 10 17. The process according to Claim 14, characterized in that the fluorine compounds are those which are used for preparing agrochemicals, drugs and liquid crystals.